

Title (en)

ELASTOMER MATERIAL WITH IMMOBILIZED ION COMPONENT, AND PRODUCTION METHOD THEREOF

Title (de)

ELASTOMERMASSE MIT EINER IMMOBILISIERTEN IONISCHEN KOMPONENTE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MATIÈRE ÉLASTOMÈRE AYANT UN CONSTITUANT IONIQUE IMMOBILISÉ ET SON PROCÉDÉ DE FABRICATION

Publication

EP 2653504 A4 20150708 (EN)

Application

EP 12839563 A 20120926

Priority

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Abstract (en)

[origin: EP2653504A1] An elastomer material (2) containing immobilized ionic components includes an elastomer (20), ion-immobilized particles (21) in which first ionic components (211) are immobilized to metallic oxide particles (210), and second ionic components (22) having electric charges opposite to electric charges of the first ionic components (211), wherein the ion-immobilized particles (21) are chemically bonded to the elastomer (20). In the elastomer material (2), the first ionic components (211) are immobilized to the elastomer (20) through the metallic oxide particles (210). Therefore, the first ionic components (211) do not easily migrate even with the passage of time or in use. Thus, the elastomer material (2) is less susceptible to temporal changes in properties. The elastomer material (2) is preferably used for the component of a transducer and a conductive roll.

IPC 8 full level

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CPC (source: EP US)

C08K 3/22 (2013.01 - US); **C08L 9/02** (2013.01 - EP US); **C08L 13/00** (2013.01 - EP US); **C08L 15/005** (2013.01 - EP US); **C08L 21/00** (2013.01 - EP US); **C08L 101/02** (2013.01 - US); **C08L 101/10** (2013.01 - EP US); **H01B 3/447** (2013.01 - US); **H01B 19/04** (2013.01 - US); **C08K 5/0091** (2013.01 - EP US); **C08K 2003/2241** (2013.01 - US); **C08K 2003/2244** (2013.01 - US)

Citation (search report)

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- [A] JP 2010109121 A 20100513 - TOKAI RUBBER IND LTD
- [A] JP 2010153364 A 20100708 - TOKAI RUBBER IND LTD
- See references of WO 2013054657A1

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